

5th Plan Conservation Target Calculator																			
Introduction: The purpose of this calculator is to provide utilities with a simple means to compute "their share" of the Northwest Power and Conservation Council 5th Plan's regional conservation target. This calculator is intended to provide utilities with an "approximation" of the level of conservation they should target in order to be consistent with the Council's regional goals. The Council <u>does not</u> formally assign individual utility targets in its planning process. Individual utility conservation goals are best established through utility integrated resource planning processes which can better account for local conditions and legal requirements. Nevertheless, the results of this calculator can be used as rough guidance for utility conservation program planning until such time as a utility completes its own integrated resource plan or other similar process.																			
Instructions: Select utility from the pull-down menu in row 12. Three options are provided to calculate individual utility shares of the 5th Plan's conservation target. Option 1 is best suited for larger utilities whose retail sales across residential, commercial and industrial sectors reasonably match those of the entire region. Option 2 is best suited for any utility regardless of size that does not have significant retail sales to irrigated agriculture. Options 1 and 2 do not require any input data. Users only need to select the utility service territory of interest. Option 3 requires that the user enter the utility's 2005 retail sales to the irrigated agriculture sector (cell i38). Option 3 is the preferred approach since it best accounts for differences in both the resource potential and the 5th Plan's targets across sectors. The results for Option 3 are not valid unless a utility's irrigation sector retail sales have been entered by the user. <i>Note: Utilities that serve multiple states must add each states results together to determine their totals.</i>																			
Version Number =>		1.7		Utility Shares Based on EIA Data for =>				2006				Last Revised =>				12/4/2008			
Option 1 - Target Based on Utility Share of Total Regional Retail Sales																			
Select Utility Service Area		Annual Conservation Target (aMW)														Total 2005 - 2024		Average Annual Target 2005 - 2024	
City of Seattle - WA		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				
Total - All Sectors		7.95	8.25	8.56	8.86	9.17	9.47	9.78	10.08	10.39	10.70	11.00	10.70	6.72	6.11	127.7	9.32		
		Annual Conservation Target (MWH)														Total 2005 - 2024		Average Annual Target 2005 - 2024	
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				
Total - All Sectors		69,598.5	72,275.4	74,952.3	77,629.1	80,306.0	82,982.9	85,659.7	88,336.6	91,013.5	93,690.3	96,367.2	93,690.3	58,891.1	53,537.3	1,118,930.2	81,644.43		
Option 2 - Target Based on Utility Share of Total Regional Retail Sales by Sector																			
		Annual Conservation Target (aMW)														Total 2005 - 2024		Average Annual Target 2005 - 2024	
Year		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				
Residential		2.18	2.30	2.42	2.54	2.66	2.78	2.90	3.02	3.15	3.27	3.63	3.75	2.66	2.18	39.4	2.7		
Commercial		3.97	4.22	4.47	4.72	4.97	5.22	5.96	6.21	5.96	6.21	6.46	6.71	4.97	4.97	75.0	5.2		
Industrial and Irrigated Agriculture		1.49	1.49	1.49	1.49	1.49	1.49	1.32	1.32	1.49	1.49	1.32	0.99	0.17	0.17	17.2	1.5		
Total - All Sectors		7.64	8.01	8.38	8.75	9.12	9.49	10.19	10.56	10.59	10.96	11.41	11.45	7.79	7.31	131.6	9.4		
		Annual Conservation Target (MWH)														Total 2005 - 2024		Average Annual Target 2005 - 2024	
Year		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				
Residential		19,077.6	20,137.4	21,197.3	22,257.2	23,317.0	24,376.9	25,436.8	26,496.6	27,556.5	28,616.4	31,796.0	32,855.8	23,317.0	19,077.6	345,516.1	23,847.0		
Commercial		34,811.5	36,987.2	39,162.9	41,338.6	43,514.4	45,690.1	52,217.2	54,392.9	52,217.2	54,392.9	56,568.7	58,744.4	43,514.4	43,514.4	657,066.8	45,472.5		
Industrial and Irrigated Agriculture		13,025.4	13,025.4	13,025.4	13,025.4	13,025.4	13,025.4	11,578.1	11,578.1	13,025.4	13,025.4	11,578.1	8,683.6	1,447.3	1,447.3	150,515.3	12,735.9		
Total - All Sectors		66,914.4	70,150.0	73,385.6	76,621.2	79,856.8	83,092.3	89,232.1	92,467.7	92,799.1	96,034.7	99,942.7	100,283.8	68,278.7	64,039.2	1,153,098.2	82,055.4		
Option 3 - Target Based on Utility Reported Share of Total Regional Retail Sales by Sector - Adjusted for Irrigation Sales																			
Sector	2006 Retail Sales (MWH)	Share of Regional Sales	EIA includes irrigation sales in its industrial sector total. In order to adjust for this, please enter your utility's 2006 retail sales in MWH for irrigation below in row 38. The industrial sector sales will update automatically so that the total still agrees with EIA data.												Reported Industrial and Irrigated Agriculture				
Residential	3,060,651	4.84%	Combined Ind & Irrig Sales (MWH) =>												1,341,505				
Commercial	5,052,063	9.93%	Net Industrial Sales (MWH) =>												1,341,505				
Industrial	1,341,505	3.84%	Enter 2006 Irrigation Sales (MWH) =>												-				
Irrigated Agriculture	-	0.00%													-				
Total - All Sectors	9,454,219	6.11%													-				
		Annual Conservation Target (aMW)														Total 2005 - 2024		Average Annual Target 2005 - 2024	
Year		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				
Residential		2.178	2.299	2.420	2.541	2.662	2.783	2.904	3.025	3.146	3.267	3.630	3.751	2.662	2.178	3.6	2.7		
Commercial		3.974	4.222	4.471	4.719	4.967	5.216	5.961	6.209	5.961	6.209	6.458	6.706	4.967	4.967	6.5	5.2		
Industrial		1.345	1.345	1.345	1.345	1.345	1.345	1.345	1.345	1.537	1.537	1.537	1.153	0.192	0.192	1.5	1.4		
Irrigated Agriculture		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total - All Sectors		7.497	7.866	8.236	8.605	8.974	9.344	10.210	10.579	10.644	11.013	11.625	11.610	7.821	7.337	11.6	9.3		
		Annual Conservation Target (MWH)														Total 2005 - 2024		Average Annual Target 2005 - 2024	
Year		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				
Residential		19,078	20,137	21,197	22,257	23,317	24,377	25,437	26,497	27,556	28,616	31,796	32,856	23,317	19,078	31,796	23,847.0		
Commercial		34,811	36,987	39,163	41,339	43,514	45,690	52,217	54,393	52,217	54,393	56,569	58,744	43,514	43,514	56,569	45,472.5		
Industrial		11,783	11,783	11,783	11,783	11,783	11,783	11,783	11,783	13,467	13,467	13,467	10,100	1,683	1,683	13,467	12,120.1		
Irrigated Agriculture		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total - All Sectors		65,673	68,908	72,144	75,379	78,615	81,850	89,437	92,673	93,241	96,476	101,831	101,700	68,515	64,275	101,831	81,439.6		